Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

CLAIMS:

1. A compound of Formula (I)

$$\begin{array}{c} R_1 \bigoplus \\ R_2 \longrightarrow Y_1 - C(R_7R_{7'}) \longrightarrow (A) \longrightarrow C(R_8R_{8'}) \longrightarrow Y_2 \longleftarrow R_5 \\ R_3 & R_6 \end{array}$$

$$(I)$$

wherein

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 Y_1 and Y_2 may be the same or different and are independently selected from N and P;

 R_1 to R_6 may be the same or different and are independently selected from the group consisting of optionally substituted C_{1-10} alkyl, optionally substituted C_{2-10} alkenyl, optionally substituted C_{2-10} alkynyl, optionally substituted C_{3-10} cycloalkyl, optionally substituted aryl, optionally substituted heteroaryl, and optionally substituted heterocycloalkyl, wherein said substituents are independently selected from C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, hydroxyl, halogen, $O(C_{1-6}$ alkyl), $C(O)O(C_{1-6}$ alkyl), $OC(O)(C_{1-6}$ alk

 R_1 and R_2 together with the Y_1 group to which they are attached, or R_1 , R_2 and R_3 together with the Y_1 group to which they are attached may optionally form a heterocycloalkyl group; and R_4 and R_5 together with the Y_2 group to which they are attached, or R_4 , R_5 and R_6 together with the Y_2 group to which they are attached may optionally form a heterocycloalkyl group; wherein each of said heterocycloalkyl groups may be optionally substituted with one or more groups selected from C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, hydroxyl, halogen, $O(C_{1-6}$ alkyl), $C(O)O(C_{1-6}$ alkyl), $OC(O)(C_{1-6}$ alkyl), $OC(O)(C_{1-6}$ alkyl), $OC(O)(C_{1-6}$ alkyl), $OC(O)(C_{1-6})$

 R_7 , R_7 , R_8 and $R_{8'}$ may be the same or different and are independently selected from hydrogen, F and Cl;

A comprises one or more groups selected from optionally substituted alkylene, optionally substituted alkenylene, optionally substituted alkynylene, optionally substituted phenyl, optionally substituted C₅₋₇ cycloalkyl, and -C(O)-, wherein the length of A is from 5 to 18 carbon atoms, and wherein the substituents are independently selected from C₁₋₆ alkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, hydroxyl, halogen, NO₂, C(O)R₁₀, OR₁₁, CH₂OR₁₁, CH₂NR₁₂R₁₃, SR₁₁, NR₁₂R₁₃, CONR₁₂R₁₃, amino acids, dipeptidyl, tripeptidyl, tetrapeptidyl and pentapeptidyl;

R₁₀ is selected from OH, OR₁₁, C₁₋₆ alkyl;

 R_{11} is selected from the group consisting of hydrogen, optionally substituted C_{1-10} alkyl, optionally substituted C_{2-10} alkenyl, optionally substituted C_{2-10} alkynyl, optionally substituted C_{3-10} cycloalkyl, optionally substituted aryl, and optionally substituted aralkyl, wherein said optional substituents are independently selected from C_{1-4} alkyl, hydroxyl and halogen;

 R_{12} and R_{13} are independently selected from the group consisting of hydrogen, optionally substituted C_{1-10} alkyl, optionally substituted C_{2-10} alkenyl, optionally substituted C_{2-10} alkynyl, optionally substituted C_{3-10} cycloalkyl, optionally substituted aralkyl, optionally substituted alkylheteroaryl, wherein said substituents are independently selected from C_{1-4} alkyl, hydroxyl, halogen, amino, and $C(O)OR_{11}$; or

 R_{12} and R_{13} , together with the nitrogen atom to which they are attached may form an optionally substituted heterocycloalkyl group, wherein said substituents are independently selected from $C_{1.4}$ alkyl, hydroxyl, halogen, amino, and $C(O)OR_{11}$;

and salts thereof,

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provided that the compound of formula (I) is not selected from the following:

⊕ R₁ N R₅ R₈

R1 = R2 = R3 = R4 = R5 = R6 = Me, El R1 = R2 = R4 = R5 = Me, R3 = R6 = penlyl

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R1 = R2 = R3 = R4 = R5 = R6 = Bu, El, Pr
   R1 = R2 = R4 = R5 = Me, R3 = R6 = Bu, Et, heptyl, nonyl,
   R1 = R2 = R4 = R5 = allyl, R3 = R6 = Me, El
   R1 = R2 = R4 = R5 = hexyl, R3 = R6 = Me
  R1 = R2 = R3 = R4 = R5 = R6 = octyl, butyl
                                         ⊕ R<sub>4</sub>
N R<sub>5</sub>
R<sub>6</sub>
R1 = R2 = R3 = R4 = R5 = R6 = Me, Et
  R1 = R2 = R3 = R4 = R5 = R6 = Me, Et, Pr
  R1 = R2 = R4 = R5 = Me, R3 = R6 = }
   R1 = R4 = Me, R2 = R5 = EL, R3 = R6 = Pr
  R1 = R2 = R3 = R4 = R5 = R6 = Et
R1 = R2 = R3 = R4 = R5 = R6 = Me, El, Bu
R1 = R4 = Me, R2 = R5 = El, R3 = R6 = Pr
      R1 = R2 = R3 = R4 = R5 = R6 = Me, Et, Pr, alM
      R1 = R2 = R4 = R5 = Me, R3 = R6 = Et
      R1 = R2 = R4 = R5 = Et, R3 = R6 = Me
      R1 = R4 = Me, R2 = R5 = Et, R3 = R6 = P
    R1 = R2 = R3 = R4 = R5 = R6 = Et
   R1 = R2 = R3 = R4 = R5 = R6 = Me, Et
   R1 = R4 = Me, R2 = R5 = Et, R3 = R6 = Pr
                                                         R4 R3
N R8
     R1 = R2 = R3 = R4 = R5 = R6 = Me, Et
     R1 = R2 = R4 = R5 = Et, R3 = R6 = Me
     R1 = R4 = Me, R2 = R5 = E1, R3 = R6 = Pr
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$$R_1 \oplus R_2 \cap R_3 \cap R_4 \cap R_5 \cap R_6 \cap R_6$$

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- 2. A compound according to claim 1, wherein Y_1 and Y_2 are each N.
- 3. A compound according to claim 1, wherein R_7 , R_7 , R_8 , and $R_{8'}$ are each hydrogen.
 - 4. A compound according to claim 1, wherein R_1 to R_6 are independently selected from the group consisting of optionally substituted C_{1-10} alkylene, optionally substituted aryl, and optionally substituted heterocycloalkyl, or
 - R_1 and R_2 together with the Y_1 group to which they are attached, or R_1 , R_2 and R_3 together with the Y_1 group to which they are attached form a heterocycloalkyl group; and

 R_4 and R_5 together with the Y_2 group to which they are attached, or R_4 , R_5 and R_6 together with the Y_2 group to which they are attached form a heterocycloalkyl group;

- 5. A compound according to claim 1, wherein A comprises one or more groups selected from optionally substituted alkylene, optionally substituted alkenylene, optionally substituted phenyl, and -C(O)-, wherein the substituents are independently selected from C₁₋₆ alkyl, C₂₋₆ alkenyl, hydroxyl, halogen, NO₂, C(O)R₁₀, OR₁₁, CH₂OR₁₁, CH₂NR₁₂R₁₃, SR₁₁, NR₁₂R₁₃, CONR₁₂R₁₃, amino acids, dipeptidyl, tripeptidyl, tetrapeptidyl and pentapeptidyl.
- 6. A compound according to claim 1, wherein the length of A is from 5 to 9 carbon atoms.
 - 7. A compound according to claim 1, of Formula (Ia):

$$R_1$$
 \oplus R_2 Y_1 \to CH_2 \oplus CH_2 \oplus R_4 \oplus R_5 \oplus R_6 (Ia)

wherein

 Y_1 and Y_2 may be the same or different and are independently selected from N and P;

 R_1 to R_6 may be the same or different and are independently selected from the group consisting of optionally substituted C_{1-10} alkyl, optionally substituted C_{2-10} alkenyl, optionally substituted C_{3-10} cycloalkyl, optionally substituted aryl, optionally substituted heteroaryl, and optionally substituted heterocycloalkyl, wherein said substituents are independently selected from C_{1-6} alkyl, C_{2-6} alkenyl, hydroxyl, halogen, $O(C_{1-6}$ alkyl), $C(O)O(C_{1-6}$ alkyl), $O(C_{1-6}$ alkyl, aryl, and OC(O)Ph; or

 R_1 and R_2 together with the Y_1 group to which they are attached may optionally form a heterocycloalkyl group; and R_4 and R_5 together with the Y_2 group to which they are attached may optionally form a heterocycloalkyl group; wherein each of said heterocycloalkyl groups may be optionally substituted with one or more groups selected from C_{1-6} alkyl, C_{2-6} alkenyl, hydroxyl, halogen, $O(C_{1-6}$ alkyl), $C(O)O(C_{1-6}$ alkyl), amino, hydroxyl C_{1-6} alkyl, and aryl;

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A comprises one or more groups selected from optionally substituted alkylene, optionally substituted alkenylene, and optionally substituted phenyl, wherein the length of A is from 5 to 18 carbon atoms, and wherein the substituents are independently selected from C₁₋₆ alkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, halogen, C(O)R₁₀, OR₁₁, SR₁₁, CH₂OR₁₁, CH₂NR₁₂R₁₃, NR₁₂R₁₃, CONR₁₂R₁₃, amino acids, dipeptidyl, tripeptidyl, tetrapeptidyl and pentapeptidyl;

R₁₀ is selected from OH, OR₁₁, C₁₋₆ alkyl;

 R_{11} is selected from the group consisting of hydrogen, optionally substituted C_{1-10} alkyl, optionally substituted C_{2-10} alkenyl, optionally substituted C_{2-10} alkynyl, and optionally substituted C_{3-10} cycloalkyl, wherein said optional substituents are independently selected from C_{1-6} alkyl, C_{2-6} alkenyl, aryl, and hydroxyl;

 R_{12} and R_{13} are independently selected from the group consisting of hydrogen, optionally substituted C_{1-10} alkyl, optionally substituted C_{2-10} alkenyl, optionally substituted C_{2-10} alkynyl, optionally substituted C_{3-10} cycloalkyl, optionally substituted alkylheteroaryl, wherein said substituents are independently selected from C_{1-6} alkyl, C_{2-6} alkenyl, aryl, hydroxyl, halogen, amino, and $C(O)OR_{11}$; or

 R_{12} and R_{13} , together with the nitrogen atom to which they are attached may form an optionally substituted heterocycloalkyl group, wherein said substituents are independently selected from C_{1-6} alkyl, C_{2-6} alkenyl, hydroxyl, halogen, amino, and $C(O)OR_{11}$,

and salts thereof.

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A compound according to claim 1, selected from 1,11-bis-(tributylammonium)undecane, 1,16-bis-(tributylammonium)hexadecane, 1,12-bis-(tripentylammonium)dodecane, 1,12-bis-(trihexylammonium)dodecane. 1,12-bis-(trioctylammonium)dodecane, 1,12-bis-(triisobutylammonium)dodecane, 1,12-bis-(triisopentylammonium)dodecane, and 1,12-bis-(1-butylpyrrolidinium)dodecane, and salts thereof.

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9. A method for one or more of treating, inhibiting, and preventing a bacterial or fungal infection in a vertebrate, said method comprising administering to said vertebrate an effective amount of at least one compound of Formula (II):

at least one compound of
$$R_1 \oplus R_2 \longrightarrow Y_1 - C(R_7R_{7'}) - (A) - C(R_6R_{6'}) - Y_2 \longrightarrow R_5$$

$$R_3 \longrightarrow R_5$$
(11)

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 Y_1 and Y_2 may be the same or different and are independently selected from N and P:

N and P; R_1 to R_6 may be the same or different and are independently selected from the group consisting of optionally substituted C_{1-10} alkynyl, optionally substituted C_{2-10} alkynyl, optionally substituted C_{3-10} cycloalkyl, optionally optionally substituted aralkyl, optionally substituted heteroaryl, and substituted aryl, optionally substituted heterocycloalkyl, wherein said substitutents are independently optionally substituted heterocycloalkyl, wherein said substitutents are independently optionally substituted heterocycloalkyl, wherein said substitutents are independently selected from C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, hydroxyl, halogen, $O(C_{1-6}$ alkyl), selected from C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkyl, aryl, OC(O)Ph, and $=C(Ph)_2$; or $C(O)O(C_{1-6}$ alkyl), NO_2 , amino, hydroxy C_{1-6} alkyl, aryl, OC(O)Ph, and $=C(Ph)_2$; or

 R_1 and R_2 together with the Y_1 group to which they are attached, or R_1 , R_2 and R_3 together with the Y_1 group to which they are attached may optionally form an heterocycloalkyl group; and R_4 and R_5 together with the Y_2 group to which they are attached, or R_4 , R_5 and R_6 together with the Y_2 group to which they are attached may optionally form a heterocycloalkyl group; wherein each of said heterocycloalkyl groups optionally substituted with one or more groups selected from $C_{1.6}$ alkyl, $C_{2.6}$ may be optionally substituted with one or more groups selected from $C_{1.6}$ alkyl, $C_{2.6}$ alkynyl, hydroxyl, and halogen, $O(C_{1.6}$ alkyl), $C(O)O(C_{1.6}$ alkyl), $O(C_{1.6}$ alkyl, aryl, and $O(C_{1.6}$ alkyl), $O(C_{1.6}$ alkyl, aryl, and $O(C_{1.6}$ alkyl).

R₇, R₇, R₈ and R₈, may be the same or different and are independently selected from hydrogen, F and Cl;

A comprises one or more groups selected from optionally substituted alkylene, optionally substituted alkenylene, optionally substituted phonyl, optionally substituted C_{5-7} cycloalkyl, and -C(O)-, wherein the length of A is from 4 to 18 carbon atoms, wherein the substituents are independently selected from $C_{1.6}$ alkyl, C_{2-6} alkenyl, hydroxyl, halogen, nitro, $C(O)R_{10}$, OR_{11} , CH_2OR_{11} , $CH_2NR_{12}R_{13}$, SR_{11} , $NR_{12}R_{13}$, hydroxyl, halogen, nitro, $C(O)R_{10}$, OR_{11} , CH_2OR_{11} , $CH_2NR_{12}R_{13}$, amino acids, dipeptidyl, tripeptidyl, tetrapeptidyl and pentapeptidyl;

R₁₀ is selected from OH, OR₁₁, C₁₋₆ alkyl, optionally substituted amino-C₁₋₆-alkylphophonate, optionally substituted amino-C₁₋₆-alkylphophonate, optionally substituted

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amino-C₁₋₆-alkyl-guanidinyl, and optionally substituted amino-C₁₋₆-alkyl-trl(C₁₋₆-alkyl)ammonium;

 R_{11} is selected from the group consisting of hydrogen, optionally substituted C_{1-10} alkyl, optionally substituted C_{2-10} alkenyl, optionally substituted C_{2-10} alkynyl, optionally substituted C_{3-10} cycloalkyl, optionally substituted arryl, optionally substituted arrino- C_{1-6} -alkyl-granidinyl, and optionally substituted amino- C_{1-6} -alkyl-phophonate, optionally substituted amino- C_{1-6} -alkyl-phophonate, optionally substituted amino- C_{1-6} -alkyl-granidinyl, and optionally substituted amino- C_{1-6} -alkyl-tri(C_{1-6} -alkyl) ammonium, wherein said optional substituents are independently selected from C_{1-4} alkyl, hydroxyl and halogen

 R_{12} and R_{13} are independently selected from the group consisting of hydrogen, optionally substituted C_{1-10} alkyl, optionally substituted C_{2-10} alkynyl, optionally substituted C_{2-10} alkynyl, optionally substituted C_{3-10} cycloalkyl, optionally substituted arrivally substituted a

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R₁₂ and R₁₃, together with the nitrogen atom to which they are attached may form an optionally substituted heterocycloalkyl group, wherein said substituents are independently selected from C₁₋₃ alkyl, hydroxyl, halogen, amino, and C(O)OR₁₁.

- 10. The method according to claim 9, wherein said compound is a compound of Formula (I) as defined in claim 1.
 - 11. The method according to claim 9, wherein the infection is a fungal infection.
- 12. The method according to claim 9, wherein the infection is a bacterial infection.
- 13. A method of inhibiting phospholipase in an organism comprising contacting said organism with an effective amount of at least one compound of Formula (I) or at least one compound of Formula (II).
- 14. The method according to claim 13, wherein the organism is selected from bacteria, fungi, virus, and parasite.
- 16. The method according to claim 13, wherein the organism is selected from the group consisting of: bacteria, fungi and virus.
- 17. A method for identifying an antimicrobial agent comprising contacting microbial cells with a compound of Formula (I) or Formula (II) suspected of having antimicrobial properties, determining whether said compound inhibits a microbial phospholipase enzyme, wherein inhibition of said phospholipase enzyme indicates antimicrobial activity, and thereby identifying an antimicrobial agent.

- 18. Cancel
- 19. Cancel